

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P26616

Luminaire Tested: **LDA6A20835D010TE LARL15SP 6LFC1 H LSL20**

Test Date: 08/28/15

Test Information

Test Method: LM-41-14
Report Number: P26616
Test Lab: INNOVATION CENTER-P2
Test Date: 08/28/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A20835D010TE LARL15SP 6LFC1 H LSL20
Description: PORTFOLIO 6" FLAT CONE HAZE 23Z TRIM, LINEAR SPREAD LENS, 15 DEG SPOT OPTIC, AT 0 DEG TILT.
Light Source: [1] CITIZEN 3500K LED
CLU034-1208B8-353M1A2
Ballast/Driver: [1] ERP ELECTRONIC DRIVER
ELM030W-0700-42, 700mA

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1416.3 lumens
Efficiency: N/A
Efficacy: 48.3 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.74 / 0.51
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

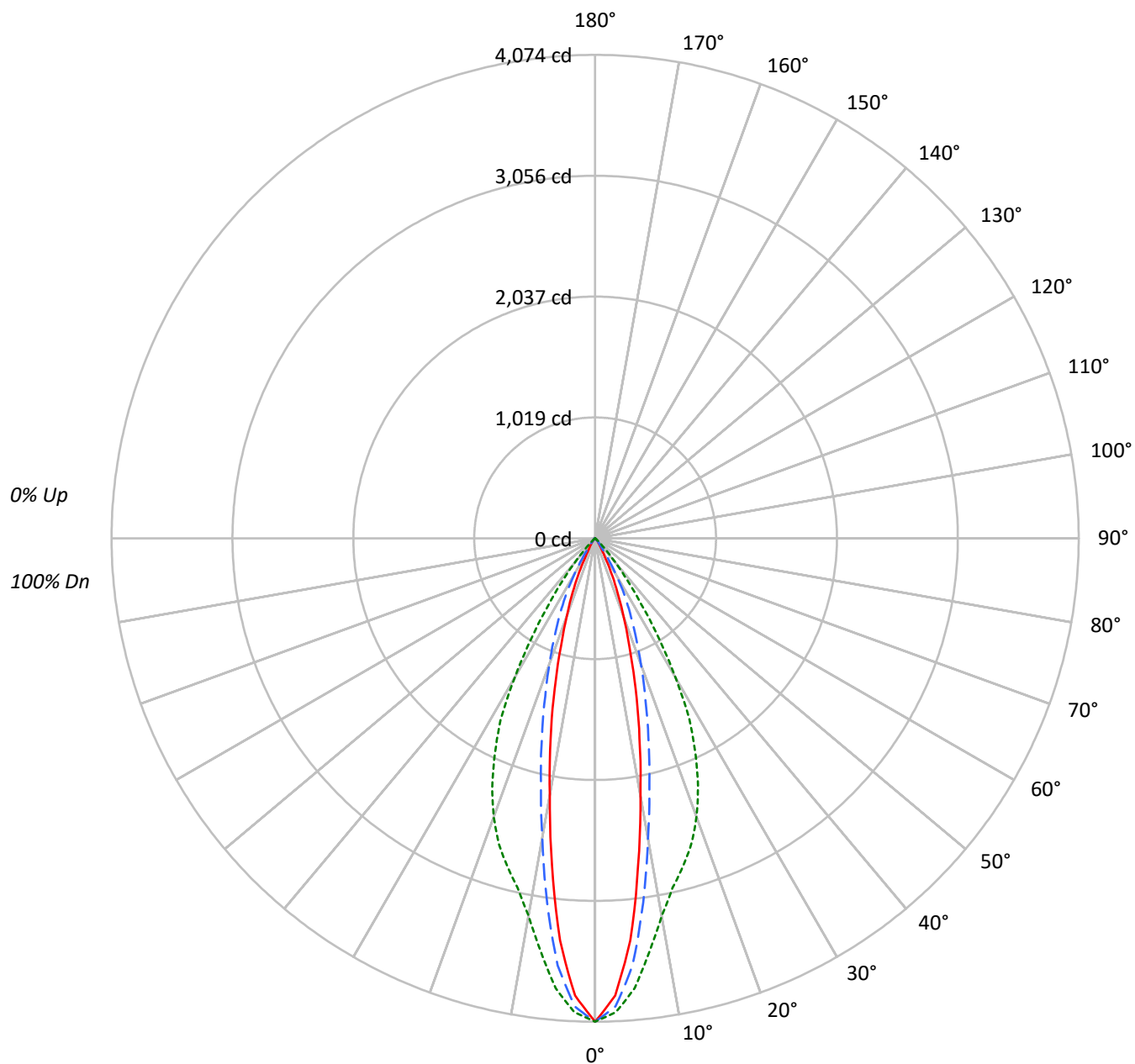
Input Watts (W): 29.3
Input Voltage (V): 119.96
Input Current (A_{in}): 0.24565
Voltage Rise (V): NR
Power Factor: 0.9952
Total Harmonic Distortion (THDi): 5.96%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	114	112	110	108	112	110	108	106		106	104	103			102	101	100			95
2	110	106	102	99	108	104	101	98		101	98	96			98	96	94			91
3	106	100	96	93	104	99	95	92		96	93	90			94	91	89			86
4	101	95	90	87	100	94	90	86		92	88	85			90	87	84			82
5	97	91	86	82	96	90	85	82		88	84	81			86	83	80			78
6	94	86	81	78	92	86	81	78		84	80	77			83	79	77			75
7	90	83	78	74	89	82	77	74		81	77	74			80	76	73			72
8	87	79	74	71	86	79	74	71		78	73	70			77	73	70			69
9	84	76	71	68	83	75	71	68		75	70	67			74	70	67			66
10	81	73	68	65	80	72	68	65		72	68	65			71	67	64			63

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	223337	223337	223337
5°	187156	198822	209498
10°	122298	142672	179801
15°	74632	98355	162373
20°	40895	65514	145729
25°	19114	41918	120793
30°	6773	22219	85646
35°	3748	6291	45508
40°	2218	2648	18463
45°	1240	1318	4652
50°	512	597	682
55°	287	287	287
60°	219	219	219
65°	130	130	130
70°	160	160	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	22.0
10°-20°	529.0	37.4
20°-30°	400.8	28.3
30°-40°	146.6	10.4
40°-50°	23.2	1.6
50°-60°	2.9	0.2
60°-70°	1.2	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1242.0	87.7
0°-40°	1388.6	98.0
0°-60°	1414.7	99.9
0°-90°	1416.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4074	4074	4074	4074	4074	
5°	3401	3494	3613	3735	3807	285
15°	1315	1418	1733	2364	2861	365
25°	316	430	693	1230	1997	152
35°	56	61	94	336	680	37
45°	16	16	17	25	60	13
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	0	1	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4074	4074	4074	4074	4074
2.5°	3858	3909	3949	3972	3998
5°	3401	3494	3613	3735	3807
7.5°	2779	2867	3098	3368	3510
10°	2197	2293	2563	2998	3230
12.5°	1728	1817	2110	2664	3016
15°	1315	1418	1733	2364	2861
17.5°	960	1101	1399	2066	2699
20°	701	849	1123	1769	2498
22.5°	491	634	890	1490	2265
25°	316	430	693	1230	1997
27.5°	175	253	523	982	1723
30°	107	128	351	733	1353
32.5°	76	85	206	515	998
35°	56	61	94	336	680
37.5°	42	43	56	192	442
40°	31	31	37	97	258
42.5°	23	23	25	50	138
45°	16	16	17	25	60
47.5°	10	10	12	14	21
50°	6	6	7	7	8
52.5°	3	4	4	4	4
55°	3	3	3	3	3
57.5°	2	2	2	2	2
60°	2	2	2	2	2
62.5°	1	2	2	1	1
65°	1	1	1	1	1
67.5°	1	1	1	1	1
70°	1	1	1	1	0
72.5°	1	1	1	0	0
75°	0	1	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)